

Neil Ravenscroft

List of Publications by Year in descending order

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63
papers

1,076
citations

516710

16
h-index

454955

30
g-index

63
all docs

63
docs citations

63
times ranked

1125
citing authors

#	ARTICLE	IF	CITATIONS
1	Epidemic meningitis due to Group A <i>Neisseria meningitidis</i> in the African meningitis belt: A persistent problem with an imminent solution. <i>Vaccine</i> , 2009, 27, B13-B19.	3.8	126
2	The predominant polyphenol in the leaves of the resurrection plant <i>Myrothamnus flabellifolius</i> , 3,4,5 tri-O-galloylquinic acid, protects membranes against desiccation and free radical-induced oxidation. <i>Biochemical Journal</i> , 2005, 385, 301-308.	3.7	111
3	Size fractionation of bacterial capsular polysaccharides for their use in conjugate vaccines. <i>Vaccine</i> , 1999, 17, 1251-1263.	3.8	62
4	Structural analysis of O-polysaccharide chains extracted from different <i>Salmonella Typhimurium</i> strains. <i>Carbohydrate Research</i> , 2014, 385, 1-8.	2.3	61
5	Development of a new method for the quantitative analysis of the extracellular polysaccharide of <i>Neisseria meningitidis</i> serogroup A by use of high-performance anion-exchange chromatography with pulsed-amperometric detection. <i>Vaccine</i> , 2001, 19, 1989-1997.	3.8	43
6	Structural Analysis of Fructans from <i>Agave americana</i> Grown in South Africa for Spirit Production. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 3995-4003.	5.2	39
7	Synthesis of structures corresponding to the capsular polysaccharide of <i>Neisseria meningitidis</i> group A. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 3782.	2.8	36
8	Desiccation-induced ultrastructural and biochemical changes in the leaves of the resurrection plant <i>Myrothamnus flabellifolia</i> . <i>Australian Journal of Botany</i> , 2007, 55, 482.	0.6	36
9	Size determination of bacterial capsular oligosaccharides used to prepare conjugate vaccines against <i>Neisseria meningitidis</i> groups Y and W135. <i>Vaccine</i> , 2005, 23, 1887-1899.	3.8	35
10	Purification and characterization of a <i>Shigella</i> conjugate vaccine, produced by glycoengineering <i>Escherichia coli</i> . <i>Glycobiology</i> , 2016, 26, cwv077.	2.5	35
11	Characterization and immunogenicity of a <i>Shigella flexneri</i> 2a O-antigen bioconjugate vaccine candidate. <i>Glycobiology</i> , 2019, 29, 669-680.	2.5	28
12	Structure of the sialic acid-containing O-specific polysaccharide from <i>Salmonella enterica</i> serovar Toucra O48 lipopolysaccharide. <i>FEBS Journal</i> , 2000, 267, 3160-3167.	0.2	26
13	Conformations of <i>Neisseria meningitidis</i> serogroup A and X polysaccharides: The effects of chain length and O-acetylation. <i>Carbohydrate Research</i> , 2018, 465, 44-51.	2.3	25
14	O-acetylation of typhoid capsular polysaccharide confers polysaccharide rigidity and immunodominance by masking additional epitopes. <i>Vaccine</i> , 2019, 37, 3866-3875.	3.8	24
15	Capsular polysaccharide conformations in pneumococcal serotypes 19F and 19A. <i>Carbohydrate Research</i> , 2015, 406, 27-33.	2.3	20
16	Genetic and structural elucidation of capsular polysaccharides from <i>Streptococcus pneumoniae</i> serotype 23A and 23B, and comparison to serotype 23F. <i>Carbohydrate Research</i> , 2017, 450, 19-29.	2.3	18
17	Structure of the capsular polysaccharide of the KPC-2-producing <i>Klebsiella pneumoniae</i> strain KK207-2 and assignment of the glycosyltransferases functions. <i>International Journal of Biological Macromolecules</i> , 2019, 130, 536-544.	7.5	17
18	Conformational properties of two exopolysaccharides produced by <i>Inquilinus limosus</i> , a cystic fibrosis lung pathogen. <i>Carbohydrate Research</i> , 2012, 350, 40-48.	2.3	16

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19	Cross-protection in <i>Neisseria meningitidis</i> serogroups Y and W polysaccharides: A comparative conformational analysis. <i>Carbohydrate Research</i> , 2017, 446-447, 40-47.	2.3	15
20	The use of bacteriophage-mediated depolymerisation in investigations of the structure of the capsular polysaccharide from <i>Klebsiella</i> serotype K71. <i>Carbohydrate Research</i> , 1990, 200, 409-428.	2.3	14
21	<i>Streptococcus pneumoniae</i> serotype 15B polysaccharide conjugate elicits a cross-functional immune response against serotype 15C but not 15A. <i>Vaccine</i> , 2022, 40, 4872-4880.	3.8	14
22	Conformational studies of the capsular polysaccharide produced by <i>Neisseria meningitidis</i> group A. <i>Carbohydrate Research</i> , 2009, 344, 940-943.	2.3	13
23	Comparative simulation of pneumococcal serogroup 19 polysaccharide repeating units with two carbohydrate force fields. <i>Carbohydrate Research</i> , 2014, 390, 20-27.	2.3	13
24	Structural aspects of 3-O- β -D-galactopyranosyl-L-arabinose and the corresponding substituted L-arabinitol. <i>Carbohydrate Research</i> , 1988, 176, 300-305.	2.3	12
25	Bioanalysis of meningococcal vaccines. <i>Bioanalysis</i> , 2010, 2, 343-361.	1.5	12
26	Conformation and Cross-Protection in Group B <i>Streptococcus</i> Serotype III and <i>Streptococcus pneumoniae</i> Serotype 14: A Molecular Modeling Study. <i>Pharmaceuticals</i> , 2019, 12, 28.	3.8	12
27	Malic Acid Supplementation Increases Urinary Citrate Excretion and Urinary pH: Implications for the Potential Treatment of Calcium Oxalate Stone Disease. <i>Journal of Endourology</i> , 2014, 28, 229-236.	2.1	11
28	<i>Burkholderia cenocepacia</i> H111 Produces a Water-Insoluble Exopolysaccharide in Biofilm: Structural Determination and Molecular Modelling. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1702.	4.1	11
29	The development and characterization of an <i>E. coli</i> O25B bioconjugate vaccine. <i>Glycoconjugate Journal</i> , 2021, 38, 421-435.	2.7	11
30	Bacteriophage-associated lyase activity against <i>Klebsiella</i> serotype K64 capsular polysaccharide. <i>Carbohydrate Research</i> , 1987, 167, 257-267.	2.3	10
31	Structural investigation of the capsular polysaccharide produced by a novel <i>Klebsiella</i> serotype (SK1). Location of O-acetyl substituents using NMR and MS techniques. <i>Carbohydrate Research</i> , 1993, 244, 325-340.	2.3	10
32	Bacteriophage degradation of <i>Klebsiella</i> K30 capsular polysaccharide. An NMR investigation of the 3,4-pyruvated galactose-containing repeating oligosaccharide. <i>Carbohydrate Research</i> , 1994, 254, 333-340.	2.3	10
33	Lessons Learned and Future Challenges in the Design and Manufacture of Glycoconjugate Vaccines. <i>ACS Symposium Series</i> , 2018, , 323-385.	0.5	10
34	Conformational and Immunogenicity Studies of the <i>Shigella flexneri</i> Serogroup 6 O-Antigen: The Effect of O-Acetylation. <i>Vaccines</i> , 2021, 9, 432.	4.4	10
35	Glycoconjugate Vaccines. , 2015, , 301-381.		9
36	The Role of Molecular Modeling in Predicting Carbohydrate Antigen Conformation and Understanding Vaccine Immunogenicity. <i>ACS Symposium Series</i> , 2018, , 139-173.	0.5	9

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37	Effects of Glucosylation and O-Acetylation on the Conformation of <i>Shigella flexneri</i> Serogroup 2 O-Antigen Vaccine Targets. <i>Journal of Physical Chemistry B</i> , 2020, 124, 2806-2814.	2.6	9
38	Complete Structural Elucidation of an Oxidized Polysialic Acid Drug Intermediate by Nuclear Magnetic Resonance Spectroscopy. <i>Bioconjugate Chemistry</i> , 2014, 25, 665-676.	3.6	8
39	Carbohydrate Force Fields: The Role of Small Partial Atomic Charges in Preventing Conformational Collapse. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 1156-1172.	5.3	8
40	Modeling the conformations of <i>Neisseria meningitidis</i> serogroup a CPS and a carba-analogue: Implications for vaccine development. <i>Carbohydrate Research</i> , 2019, 486, 107838.	2.3	7
41	Enclathration of Picoline Isomers by (<i>rac</i>)-TADDOLs: Structures, Selectivity, and Thermal Analysis. <i>Crystal Growth and Design</i> , 2019, 19, 1880-1887.	3.0	7
42	Evaluation of Critical Quality Attributes of a Pentavalent (A, C, Y, W, X) Meningococcal Conjugate Vaccine for Global Use. <i>Pathogens</i> , 2021, 10, 928.	2.8	7
43	Molecular Modeling of the <i>Shigella flexneri</i> Serogroup 3 and 5 O-Antigens and Conformational Relationships for a Vaccine Containing Serotypes 2a and 3a. <i>Vaccines</i> , 2020, 8, 643.	4.4	6
44	3-Deoxy-Octulosonic-Acid-Containing Hexasaccharide Fragment of Unusual Core Type Isolated from <i>Hafnia alvei</i> 2 Lipopolysaccharide. <i>FEBS Journal</i> , 1995, 227, 889-896.	0.2	6
45	Use of NMR as an analytical tool in the process development of conjugate vaccines against <i>Haemophilus influenzae</i> type b (Hib) and meningococcal serogroup A (MenA). <i>Biologicals</i> , 2019, 62, 102-106.	1.4	5
46	Mechanistic Study of Potent Fluorinated EGFR Kinase Inhibitors with a Quinazoline Scaffold against L858R/T790M/C797S Resistance Mutation: Unveiling the Fluorine Substituent Cooperativity Effect on the Inhibitory Activity. <i>Journal of Physical Chemistry B</i> , 2020, 124, 5813-5824.	2.6	5
47	The biofilm of <i>Burkholderia cenocepacia</i> H111 contains an exopolysaccharide composed of l-rhamnose and l-mannose: Structural characterization and molecular modelling. <i>Carbohydrate Research</i> , 2021, 499, 108231.	2.3	5
48	Characterization of the <i>Salmonella Typhimurium</i> core oligosaccharide and its reducing end 3-deoxy-d-manno-oct-2-ulosonic acid used for conjugate vaccine production. <i>Carbohydrate Research</i> , 2019, 481, 43-51.	2.3	4
49	Cross-reactivity of <i>Haemophilus influenzae</i> type a and b polysaccharides: molecular modeling and conjugate immunogenicity studies. <i>Glycoconjugate Journal</i> , 2021, 38, 735-746.	2.7	4
50	Two Dimensional NMR Study of Aspidospermine. <i>Spectroscopy Letters</i> , 1993, 26, 707-719.	1.0	3
51	Intestinal permeability in subjects from two different race groups with diverse stone-risk profiles. <i>Urolithiasis</i> , 2013, 41, 111-117.	2.0	3
52	A Mechanistic Study of a Potent and Selective Epidermal Growth Factor Receptor Inhibitor against the L858R/T790M Resistance Mutation. <i>Biochemistry</i> , 2019, 58, 4246-4259.	2.5	3
53	Separation and Resolution of Methylcyclohexanones by Enclathration with Deoxycholic Acid. <i>Crystal Growth and Design</i> , 2019, 19, 3962-3968.	3.0	3
54	Preferential enclathration of lutidine isomers by diol-hosts. <i>Journal of Molecular Structure</i> , 2019, 1181, 636-644.	3.6	3

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55	Molecular modeling provides insights into the loading of sialic acid-containing antigens onto CRM197: the role of chain flexibility in conjugation efficiency and glycoconjugate architecture. <i>Glycoconjugate Journal</i> , 2021, 38, 411-419.	2.7	3
56	Deciphering the Mechanism of Binding Selectivity of Chlorofluoroacetamide-Based Covalent Inhibitors toward L858R/T790M Resistance Mutation. <i>Journal of Chemical Information and Modeling</i> , 2022, , .	5.4	3
57	Selective enclathration of xylenols: synergistic effects of mixed hosts. <i>CrystEngComm</i> , 2020, 22, 7389-7398.	2.6	2
58	Characterisation of a new cell wall teichoic acid produced by <i>Listeria innocua</i> Å½M39 and analysis of its biosynthesis genes. <i>Carbohydrate Research</i> , 2022, 511, 108499.	2.3	2
59	Partial depolymerization of capsular polysaccharides isolated from <i>Streptococcus pneumoniae</i> serotype 2 by various methods. <i>Carbohydrate Research</i> , 2022, 512, 108503.	2.3	2
60	Rapid generation of <i>Shigella flexneri</i> GMMA displaying natural or new and cross-reactive O-Antigens. <i>Npj Vaccines</i> , 2022, 7, .	6.0	2
61	NMR characterization of bacterial glycans and glycoconjugate vaccines. , 2020, , 239-281.		1
62	Composition and inhibitory properties of endogenous urinary GAGS are different in subjects from two race groups with different occurrence rates of kidney stones: Pilot studies provide unique evidence in support of an inhibitory role for this group of compounds. <i>Clinica Chimica Acta</i> , 2022, 525, 84-90.	1.1	1
63	Theoretical and laboratory investigations of the effects of hydroxyproline ingestion on the metabolic and physicochemical risk factors for calcium oxalate kidney stone formation in a small group of healthy subjects. <i>International Urology and Nephrology</i> , 2019, 51, 1121-1127.	1.4	0